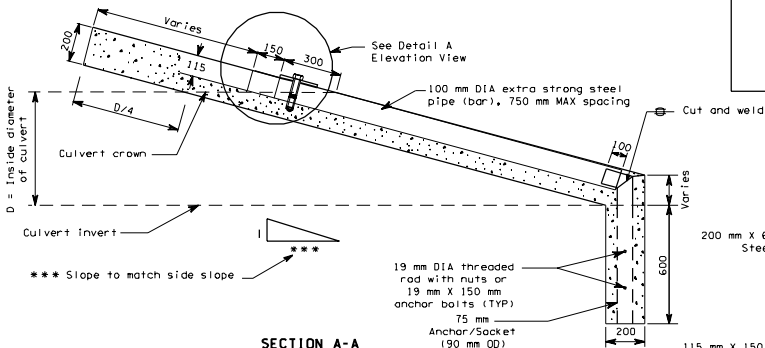
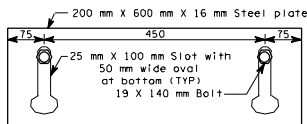


**TOP VIEW**

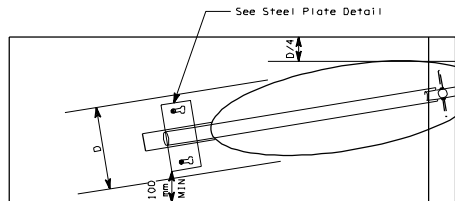
Culvert is perpendicular to roadway  
Headwall is placed parallel to roadway



**SECTION A-A**

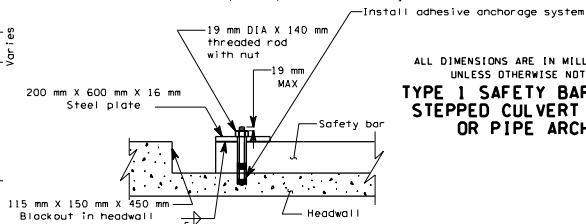


**STEEL PLATE**



**TOP**

Culvert is skewed to roadway  
Headwall is placed parallel to roadway



**ELEVATION**

**DETAIL A**

**NOTES**

1. Sockets shall be 75 mm extra strong steel pipe (90 mm OD). Sockets must be the proper angle to allow safety bar to be easily removed.
2. Safety Bar shall be 100 mm extra strong (115 mm OD) steel pipe.
3. Bevel culvert pipe to match side slope.

Culvert DIA (mm)	Required number of pipes
Up to 900	None
1050-1500	1
1650-2250	2
2400-3000	3

ALL DIMENSIONS ARE IN MILLIMETERS  
UNLESS OTHERWISE NOTED

**TYPE 1 SAFETY BARS FOR  
STEPPED CULVERT PIPE  
OR PIPE ARCH**